DESKLINE®
IMPROVING ERGONOMICS

DL15/DL16/DB16 systems with CBD6S

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WWW.LINAK.COM

LINAK®
WE IMPROVE YOUR LIFE

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Preface

We are delighted that you have chosen a product from LINAK A/S. LINAK systems are high-tech products based on many years of experience in the manufacture and development of actuators, electric control boxes, controls and chargers.

We are also constantly improving our products to meet customer requirements.

This User Manual will tell you how to install, use and maintain your LINAK DESKLINE® products.

We are sure that the DESKLINE products will give you many years of problem-free operation. Before our products leave the factory they undergo full function and quality testing. Should you nevertheless experience problems with your systems, you are always welcome to contact our service departments or service centres.

LINAK subsidiaries and distributors all over the world have authorised service centres, which are always ready to help you.

LINAK provides a warranty on all its products. This warranty, however, is subject to correct use in accordance with the specifications, maintenance being done correctly and any repairs being carried out at a service centre, which is authorised to repair LINAK products.

Changes in installation and use of LINAK systems can affect their operation and durability. Changes must therefore only be made by agreement with LINAK A/S and are made at your own risk.

LINAK A/S

Valid for:

This User Manual is valid for the following products:

(See the first 3 - 5 characters on the label)

Columns:	DL15, DL16, DB16 or 2, 3 or 4 parallel
Control boxes:	CBD6S 200W, CBD6S 300W
Controls:	DP1U/DPF1M (if memory function is required) DP1C/WDPL/DPT/DPF1C (if memory function and display are required) or DPA/DPB/DP1K/DP1V/DPF1K (if only up/down is required.)

Important information

Important information on LINAK® products can be found under the following headings:

Warning!
Failure to comply with these instructions may result in accidents involving serious personal injury.

Failing to follow these instructions can result in the product being damaged or being destroyed.

Safety instruction

General

Safe use of the system is possible only when the operating instructions are read completely and the instructions contained are strictly observed.

Failure to comply with instructions marked with the "NOTE" symbol may result in serious damage to the system or one of its components.

It is important for everyone who is to connect, install or use the systems to have the necessary information and access to this User Manual. Follow the instructions for mounting – risk of injury if these instructions are not followed.

The appliance is not intended for use by young children or infirm persons without supervision.

If there is visible damage on the product it must not be installed.

Note that during construction of applications, in which the actuator is to be fitted, there must be no possibility of personal injury, for example the squeezing of fingers or arms.

Assure free space for movement of the application in both directions to avoid blockade.

Before installation, re-installation or troubleshooting:

- Stop the DL15/DL16/DB16
- Switch off the power supply and pull out the mains plug.
- Relieve the DL15/DL16/DB16 of any loads, which may be released during the work.

Before start-up:

- Make sure that the system has been installed as instructed in this User Manual.
- Make sure that the voltage of the control box is correct before the system is connected to the mains.
- System connection. The individual parts must be connected before the control box is connected to the mains. See the User Manual for LINAK actuators, if necessary.

During operation

- If the control box makes unusual noise or smells, switch off the mains voltage immediately.
- Take care that the cables are not damaged.
- Unplug the mains cable on mobile equipment before it is moved.
- The products must only be used in an environment that corresponds to their IP protection.

Misc.

The actuator system has a sound level below 55dB(A) in typical applications.

Updated manuals and declarations can always be found here:
www.linak.com/deskline

Only for EU markets

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Only for Non EU markets

Persons who do not have the necessary experience or knowledge of the product/products must not use the product/products. Besides, persons with reduced physical, sensory or mental abilities must not use the product/products, unless they are under surveillance or they have been thoroughly instructed in the use of the apparatus by a person who is responsible for the safety of these persons.

Moreover, children must be under surveillance to ensure that they do not play with the product.

It is the operator's responsibility to ensure that there is free space for the application to move without risk for the operator or bystanders before operating the application.

Misuse

Do not overload the actuators – this can cause danger of personal injury and damage to the system.

Do not use the actuator system for lifting persons. Do not sit or stand on a table while operating – risk of personal injury.

Do not use the system in environments other than the intended indoor use

Repairs

In order to avoid the risk of malfunction, all DESKLINE® repairs must only be carried out by authorised LINAK workshops or repairers, as special tools must be used and special gaskets must be fitted. Lifting units under warranty must also be returned to authorised LINAK workshops.

Warning!
If any of the DESKLINE® products are opened, there will be a risk of subsequent malfunction.

Warning!
The DESKLINE® systems do not withstand cutting oil.

DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

Herewith declares that LINAK DESKLINE® products as characterized by the following models and types:

Control Boxes	CBD4, CBD5, CBD6, CBD6S
And	
Linear Actuators	LA31, DB4, DB5, DB6, DB7, DB9, DB12, DB14, DB16, LA23
Lifting Columns	DL1A, DL2, DL4, DL5, DL6, DL7, DL8, DL9, DL10, DL11, DL12, DL14, DL15, DL16, DL17, LP2, LP3, BASE1
And	
Desk Panels	DP, DPA, DPB, DPH, DPF, DPT, DP1C, DP1K, DP1L, DP1V, DP1U, WDPL1
RF Controls	HB10, HB20, RFR and RFT
And	
Accessories	SLS

comply with the following parts of the Machinery Directive 2006/42/EC, ANNEX I, *Essential health and safety requirements relating to the design and construction of machinery*:

1.5.1 Electricity supply

The relevant technical documentation is compiled in accordance with part B of Annex VII and that this documentation or part hereof will be transmitted by post or electronically to a reasoned request by the national authorities.

This partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of the Machinery Directive 2006/42/EC where appropriate.

Nordborg, 2014-04-10

LINAK A/S
John Kling, B.Sc.E.E.
Certification and Regulatory Affairs
Authorized to compile the relevant technical documentation

Misc. on the DESKLINE® DL15/DL16/DB16 system

This system is a DESKLINE system developed for desks and for indoor use in offices. Do not use it in industrial kitchens or in other environments that have to be cleaned with aggressive detergents.
Do not bolt the legs to the floor so that free movement is prevented. This could cause serious damage to the legs in error situations.

Warranty
There is a 36 months' warranty on the DESKLINE products against manufacturing calculated faults from the production date of the individual products (see label).
LINAK A/S warranty is only valid in so far as the equipment has been used and maintained correctly and has not been tampered with. Furthermore, the system must not be exposed to violent treatment. In the event of this, the warranty will be ineffective/invalid. For further details, please see LINAK A/S ordinary conditions of sale.

Maintenance
Clean dust and dirt on the outside of the system at appropriate intervals and inspect them for damage and breaks.
Inspect the connections, cables and plugs and check for correct functioning as well as fixing points.

Service of double insulated products:

Class II

A Class II or **double insulated** electrical appliance is one which has been designed in such a way that it does not require a safety connection to electrical earth (US: ground).
The basic requirement is that no single failure can result in dangerous voltage becoming exposed so that it might cause an electric shock and that this is achieved without relying on an earthed metal casing. This is usually achieved at least in part by having two layers of insulating material surrounding live parts or by using reinforced insulation.
There is no earthing/grounding means provided on the product, and no earthing/grounding means is to be added to the product.
In Europe, a double insulated appliance must be labelled "Class II", "double insulated" or bear the double insulation symbol (a square inside another square).
Servicing a double insulated product requires extreme care and knowledge of the system, and is to be done only by qualified service personnel. Replacement parts for a double insulated product must be identical to the parts they replace.

The cleaners and disinfectants must not be highly alkaline or acidic (pH value 6-8).

ETL-marking

Due to space limitations, the complete ETL-marking demands are not represented on the marking plates.

The full ETL Recognized Component markings are shown here.

C/N 120690

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

C/N 9901916

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

C/N 4008003

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

C/N 4008004

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

C/N 4008005

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

C/N 4008671

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

C/N 4009507

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

Description of the DESKLINE® system

Each DESKLINE® actuator/column is equipped with a motor and parallel/memory drive is ensured by means of software in the CBD6S that also takes account of an oblique load on the desk. Soft start and stop are also part of this software, which ensures a soft start and stop when adjusting the desk.

Application of the DESKLINE® system:
Irrespective of the load the **duty cycle 10% ~ 6 min./ hour or max. 2 min. at continuous use** stated in the data sheets, must **NOT** be exceeded as this will result in a superheating of the motor, the brake and the spindle nut. Exceeding the duty cycle will result in a dramatic reduction of the life of the system.

The system range contains the following products:
- 1 control box CBD6S 200W or CBD6S 300W (SMPS - Switch Mode Power Supply)
- DL15, DL16, DB16 or 2, 3 or 4 parallel
- 1 exchangeable mains cable
- 1, 2, 3 or 4 motor cables
- 1 DP1U/DPF1M (if memory function is required) DP1C/WDPL/DPT/DPF1C (if memory function and display are required) or 1 DPA/DPB/DP1K/DP1V/DPF1K (if only up/down is required.)

Mounting guidelines for the DESKLINE® DL15/DL16 system

The lifting units are normally mounted with the motor housings upwards and pointing towards each other (see figure 2).
The steel motor housing is supplied with 6 pcs. of M6 threaded holes meant for mounting on the desk frame.

The motor housing is supplied with 6 pcs. of M6 threaded holes meant for mounting on the desk frame. We advise you to fasten the desk frame by means of 6 pcs. of M6 screws of a good quality and a suitable length, which must not go further into the motor housing than max.10 mm. The thrust moment must not exceed max. 7.5 Nm.

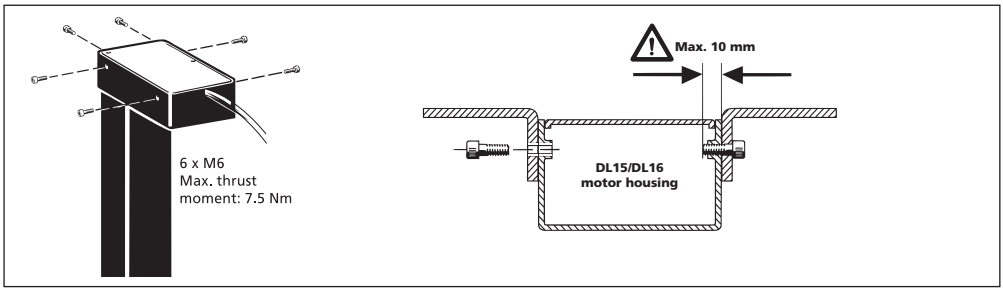


Figure 1

It is recommended to use all 6 pcs of the M6 threaded holes. As the tabletop amplifies the sound we advise you to place a vibration/shock-absorbing material between the tabletop and the table frame.

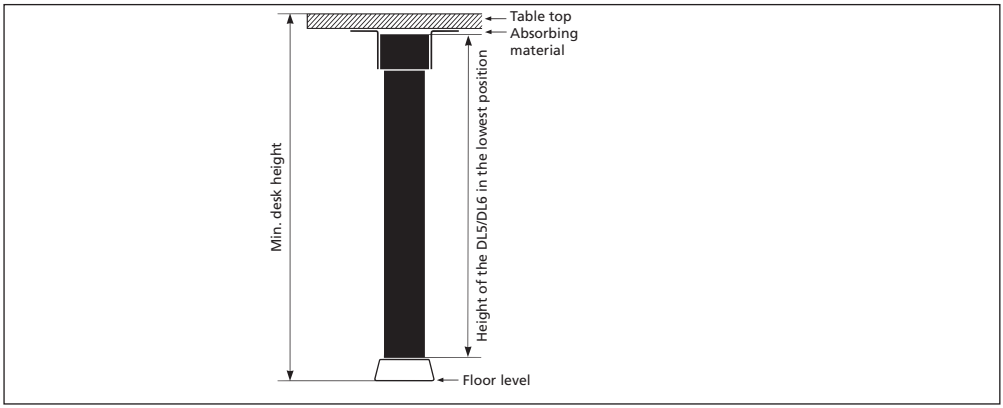


Figure 2

A suitable desk height in the lowest position can be obtained by mounting the lifting unit on a 6-8 mm bottom plate by means of 4 pcs. of M6 countersinked screws. We recommend you to use screws of min. quality 8.8. The thrust moment must not exceed 10 Nm in the bottom plate thread.

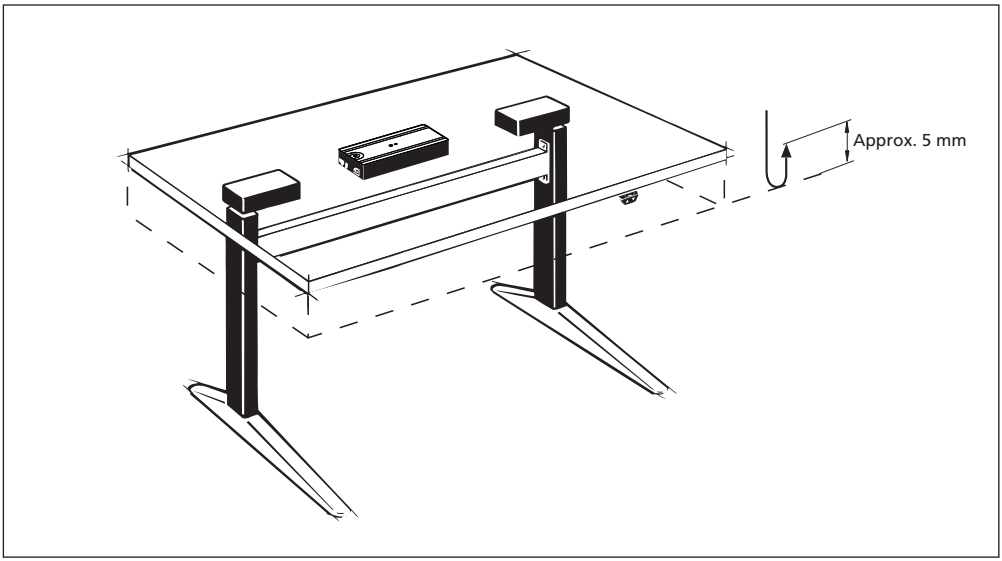


Figure 3
(Example of how to mount a 2 parallel DESKLINE® DL15/DL16 system)

Placement of a monitor directly above the motor housing may cause malfunction of the monitor. Magnets inside the motor may interrupt the picture on the monitor depending on the distance and type of monitor. If this is the case, the problem may be solved by placing an iron plate/tube or another magnetic material, somewhat larger than the motor housing, between the motor and the desktop.

To avoid damage of the lifting unit there must be min. 1 mm space between the end of the screw for the mounting bracket and the surface of the lifting unit (see figure 1). The use of any longer screws will come into contact with the inner parts. This will result in an irregular operation or even damage the lifting unit.

The DESKLINE® DL15/DL16/DB16 system can only be used in push applications with the motor housing mounted upwards.

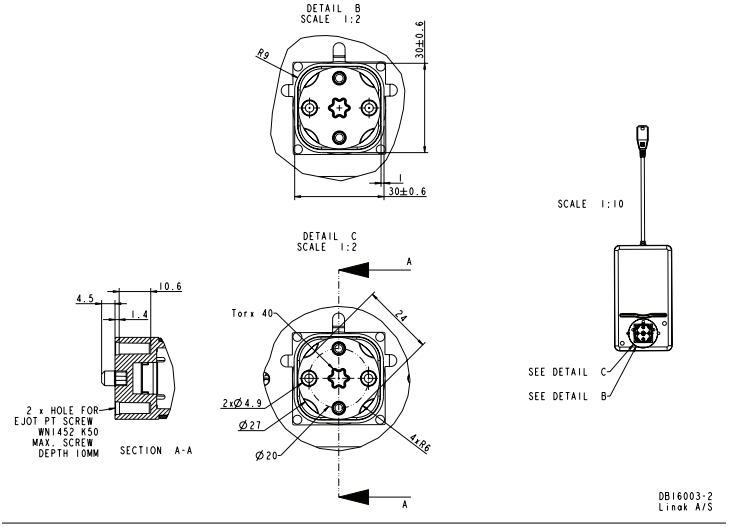
The end stop system in the DB6 is based on a buffer system meaning that you must be aware of the lengths when initialising. The products must be able to drive:

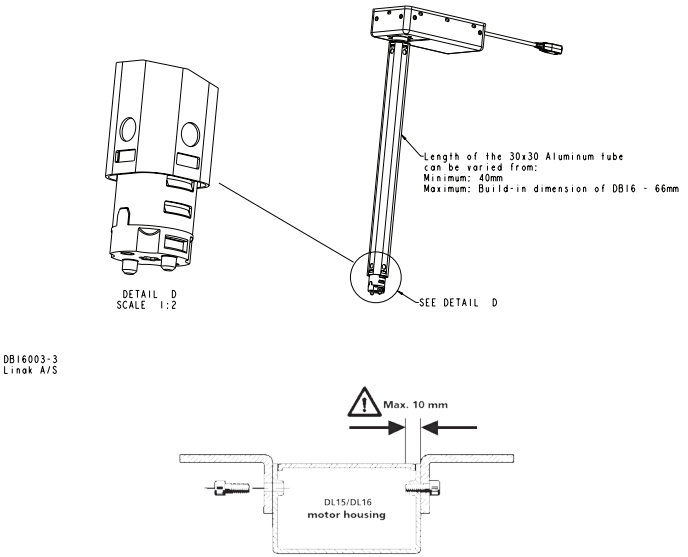
Inward direction: built-in dimension - tolerances – 5 mm
Outward direction: built-in dimension + stroke length + tolerances + 5 mm

Mounting guidelines for the DB16 system

The motor housing is supplied with 6 pcs. M6 threaded holes meant for mounting on the desk frame. We advise you to fasten the desk frame by means of 6 pcs. M6 screws of a good quality and a suitable length, which must not go further into the motor housing than max.10 mm. The thrust moment must not exceed 7.5 Nm.

The motor housing can also be mounted by using 2 M6 screws with 10 mm diameter heads fitted through the two uppermost holes (as shown).





It is important that the correct screws are used. Check that the screws are fitted correctly to ensure a correct function in order to prevent the guidance from coming apart when the desktop is lifted.

As the desktop amplifies the sound, we advise you to place a vibration/ shock absorbing material between the desktop and the desk frame.

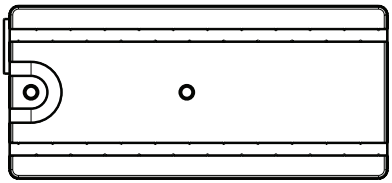
Mounting guidelines CBD6S (SMPS)

The control box is to be fastened with 1 - 2 screws with a head diameter between ø 8 and ø 10 mm. Out of regard for the tension surface ø 10 mm is preferable due to lower surface tension. See drawing appendix for placing of mounting holes and the space the CBD takes up.

CBD6S 200W and CBD6S 300W

The CBD must not be packed in heat insulating material, but must be placed so that it can emit waste heat into the surroundings. There are no ventilation holes to consider, the CBD emits heat through the surface.
The plug must be visible when the CBD is mounted so that the supply to the CBD can be disconnected at replacement, if any.
The mounting screws on the control box must be fastened with a max. torque of 1 Nm.
The mounting surface to which the control box is attached should have a surface evenness of better than ± 0.5 mm.

Bottom with cable grooves
The bottom of the CBD6S (SMPS) is equipped with two cable grooves improving the cable management when mounting. The grooves can be used to bypass the CBD for both motor cables and the mains cable (EU version only) from one side to the other, giving a cleaner design.



Remember to lead the cables through the grooves before mounting the control box.

For mounting and operation of the desk panel, please see the separate user manual for desk panels.

Electrical connection of the DL15/DL16/DB16 system:

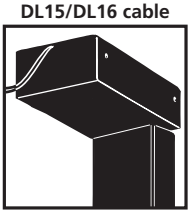
The DESKLINE® DL15/DL16/DB16 system is to be connected as shown on figure 4.
Each DL15/DL16/DB16 is to be connected to the sockets on the control box by means of the motor cables, which have a 6-pin plug in each end.

Finally, the mains cable is to be mounted and power switched on.

Please note that the control box must only be connected to the voltage stated on the label.

Voltage must not be connected to the CBD6S until all actuators/legs have been connected. This must be observed to ensure that the CBD6S can detect, which actuators/legs have been connected.

Figure 4



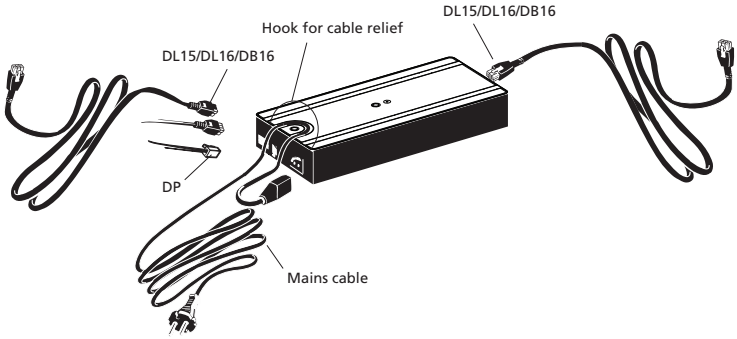


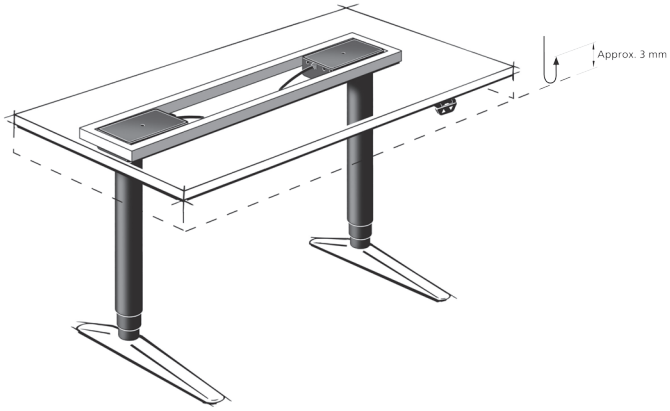
Figure 5

Initialisation of the DESKLINE DL15/DL16/DB16 parallel system

The DESKLINE system is intialised by pressing the down button once or twice and holding it down until the DL15/DL16 runs into end stop. It will then automatically run approx. 3 mm out again and hereafter slowly run in again. Do not release the down button until the movement has stopped completely.

If the button is released before the sequence is completed then the initialisation is interrupted and must be started again from the beginning.

It is sometimes necessary to press the down button twice to start the initialisation, this is because the system can be in different modes when the initialisation starts.



Accessories and repair

Ordering accessories
Order from your nearest LINAK® dealer or subsidiary.

Accessories
Please contact your nearest LINAK dealer for information.

Repairs
Systems should only be repaired by an authorised LINAK service centre or engineer. Systems to be repaired under warranty must be sent to an authorised LINAK service centre.

Warning!
By unauthorised opening of the system there is a risk that it may malfunction at a later date.

Spare parts
Please contact your nearest LINAK dealer for information on spare parts.

Disposal of LINAK products

As LINAK customers often ask us how our products can be disposed of or scrapped we have prepared this guidance that enables a classification to different waste fractions for recycling or combustion.

Guidance

We recommend our products to be disassembled as much as possible and divided into different waste groups for recycling or combustion.

For example, waste can be sorted into metals, plastics, cable scrap, combustible material, and recoverable resources.

Some of these main groups can be further divided into subgroups; e.g. metal can be divided into steel/ aluminium/copper and plastic can be divided into ABS/PA/PE/PP.

As an example, the table below breaks down the different components in LINAK products to various recycling groups:

Product	Components	Recycling group
Columns/ Actuator :	Spindle and motor Plastic housing Cable PCB boards	Scrap Plastic recycling or combustion Cable scrap or combustion Electronics scrap
Control box :	PCB boards Plastic housing Cable Transformer	Electronics scrap Plastic recycling or combustion Cable scrap or combustion Metal scrap
Handset/Control :	Plastic housing Cable PCB board	Plastic recycling or combustion Cable scrap or combustion Electronics scrap

By now almost all our casted plastic parts are supplied with an interior code for plastic type and fibre contents, if any.

Main groups of disposal

Product main groups	Metal scrap	Cable scrap	Electronics scrap	Plastic recycling or combustion	Comments
DL15/DL16/DB16	X	X	X	X	
CBD6S (SMPS)	X	X	X	X	
DPXX		X	X	X	

Disposal of batteries

Details regarding safe disposal of used and leaking batteries:
Batteries should be disposed of in accordance with appropriate federal, state and local regulations. LINAK recommends that used or leaking batteries are disposed of through local recycling system. Please do not throw used or leaking batteries in normal household waste or in nature. This will cause damage to the enviroment.

How to deal with leaking batteries.

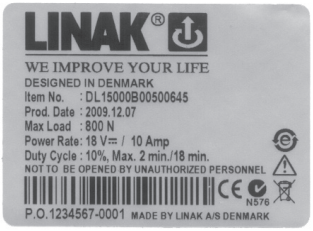
Leaking batteries should be disposed of as described above.
If leaking batteries are discovered in the product, the batteries must be removed at once to minimise damage to the product. If leaking batteries are left in the product it might become defective.

It is recommended to use plastic gloves when handling leaking batteries. The contents of a leaking batteries can cause chemical burns and respiratory irritation.

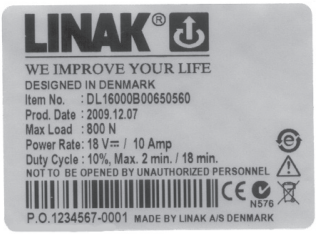
If exposed to the contents of a leaking battery, please wash with soap and water. If irritation persists, please seek medical attention. In case of eye contact, please flush eyes thoroughly with water for 15 minutes and seek medical attention."

Labels

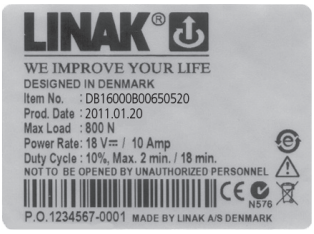
Label for DL15


LINAK®
WE IMPROVE YOUR LIFE
DESIGNED IN DENMARK
Item No. : DL15000B00500645
Prod. Date : 2009.12.07
Max Load : 800 N
Power Rate: 18 V⎓ / 10 Amp
Duty Cycle : 10%, Max. 2 min./18 min.
NOT TO BE OPENED BY UNAUTHORIZED PERSONNEL
N576
P.O.1234567-0001 MADE BY LINAK A/S DENMARK

Label for DL16


LINAK®
WE IMPROVE YOUR LIFE
DESIGNED IN DENMARK
Item No. : DL16000B00650560
Prod. Date : 2009.12.07
Max Load : 800 N
Power Rate: 18 V⎓ / 10 Amp
Duty Cycle : 10%, Max. 2 min. / 18 min.
NOT TO BE OPENED BY UNAUTHORIZED PERSONNEL
N576
P.O.1234567-0001 MADE BY LINAK A/S DENMARK

Label for DB16


LINAK®
WE IMPROVE YOUR LIFE
DESIGNED IN DENMARK
Item No. : DB16000B00650520
Prod. Date : 2011.01.20
Max Load : 800 N
Power Rate: 18 V⎓ / 10 Amp
Duty Cycle : 10%, Max. 2 min. / 18 min.
NOT TO BE OPENED BY UNAUTHORIZED PERSONNEL
N576
P.O.1234567-0001 MADE BY LINAK A/S DENMARK

Label for CBD6S 200W (SMPS)

Label for CBD6S 300W (SMPS)
up to 4 channels

LINAK®
WE IMPROVE YOUR LIFE
DESIGNED IN DENMARK
GROUP
HEADQUARTERS
SMEDEVAENGET 8
DK 6430 NORDBORG
Item : CBD6SP00020A-709
Date : 2014.02.07
U In : 90 V - 240 V ~, 48 Hz - 63 HZ
P In : 450 W
U Out: 12 V⎓ - 40 V⎓
Op. : Int. 10%, Max. 2 min./18 min.
S.W. P/N.: 03002000 Ver. XXX
NOT TO BE OPENED BY UNAUTHORIZED PERSONNEL
P.O.-0000
Assembled in China 01

LINAK APPLICATION POLICY

The purpose of the application policy is to define areas of responsibilities in relation to applying a LINAK product defined as hardware, software, technical advice, etc. related to an existing or a new customer application.

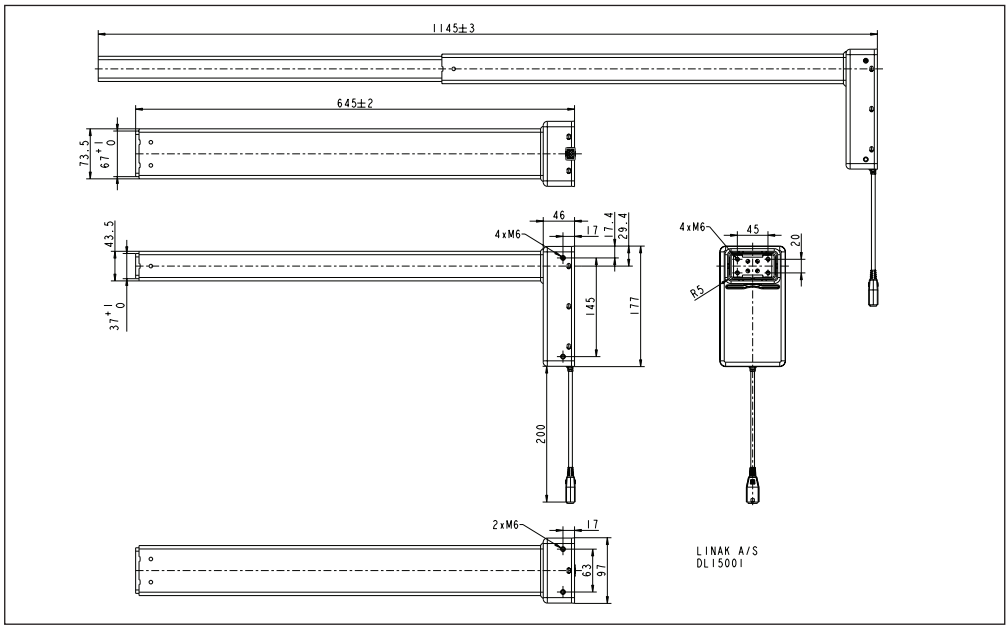
LINAK products as defined above are applicable for a wide range of applications within the Medical, Furniture, Desk and Industry areas. Yet, LINAK cannot know all the conditions under which LINAK products will be installed, used, and operated, as each individual application is unique.

The suitability and functionality of the LINAK product and its performance under varying conditions (application, vibration, load, humidity, temperature, frequency, etc.) can only be verified by testing, and shall ultimately be the responsibility of the LINAK customer using any LINAK product.

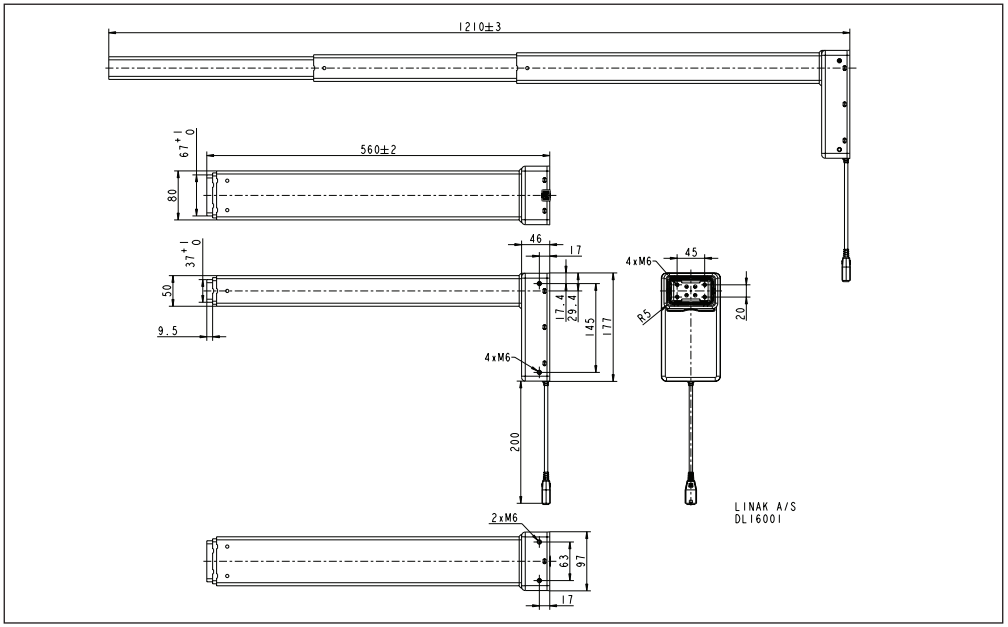
LINAK shall be responsible solely that LINAK products comply with the specifications set out by LINAK and it shall be the responsibility of the LINAK customer to ensure that the specific LINAK product can be used for the application in question.

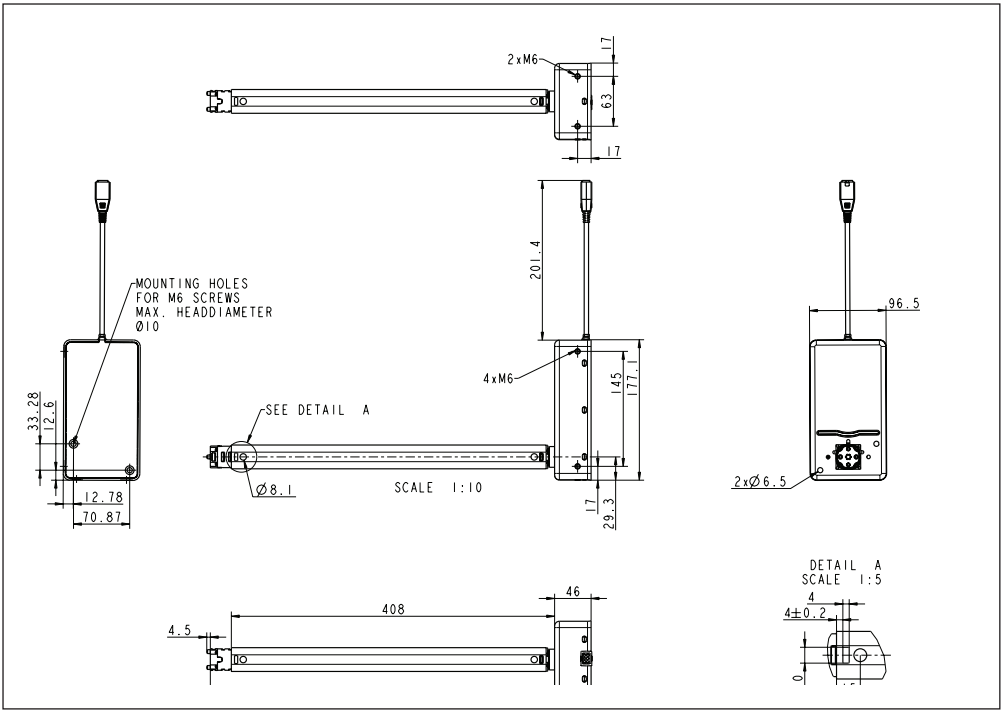
DRAWING APPENDIX

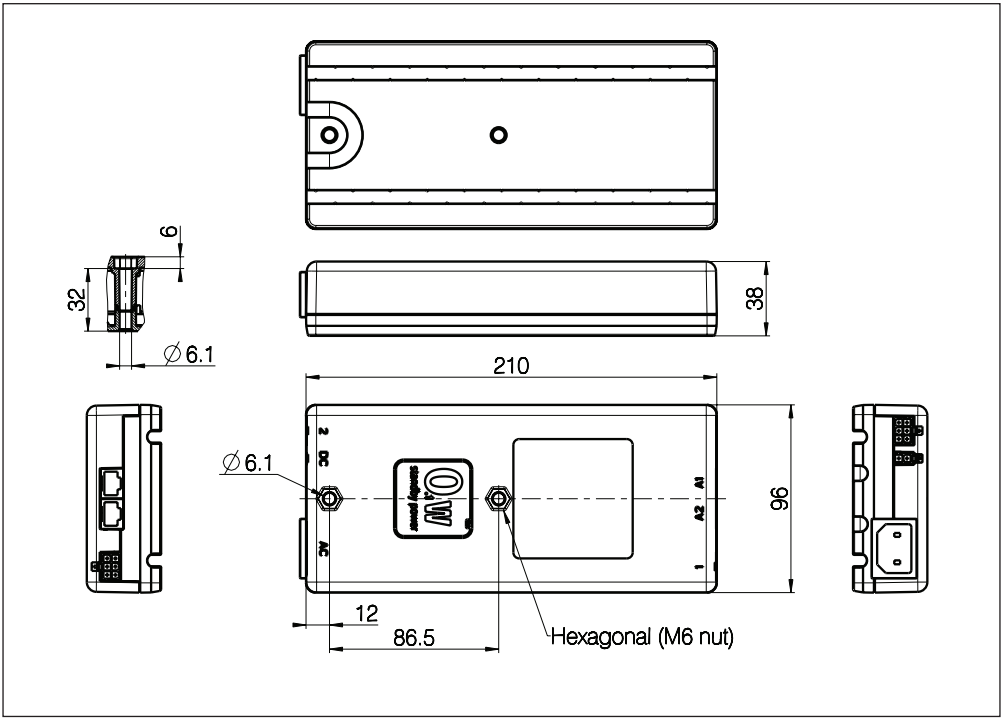
DL15 lifting unit



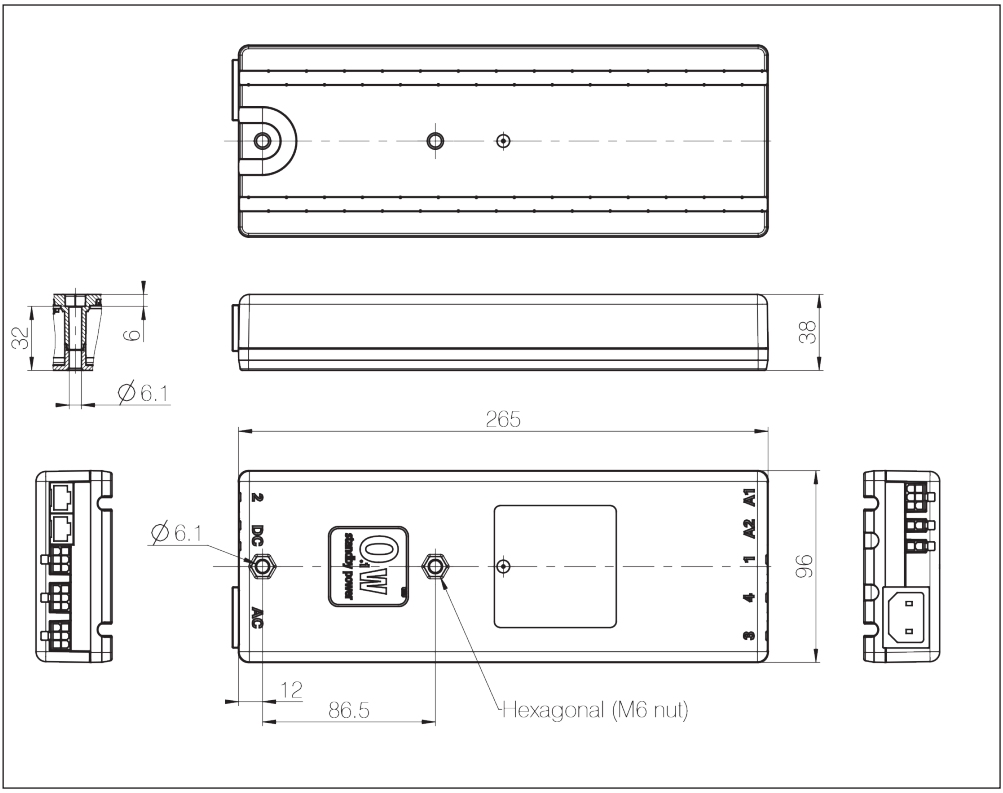
DL16 lifting unit




2xM6
17
63
17
MOUNTING HOLES
FOR M6 SCREWS
MAX. HEADDIAMETER
Ø10
201.4
4xM6
145
177.1
SEE DETAIL A
33.28
12.6
12.78
70.87
Ø8.1
SCALE 1:10
17
29.3
96.5
2xØ6.5
DETAIL A
SCALE 1:5
4
4±0.2
0
46
408
4.5


6
32
∅6.1
38
210
∅6.1
96
12
86.5
Hexagonal (M6 nut)

CBD6S 300W (SMPS) up to 4 channels



DECLARATION OF CONFORMITY

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

hereby declares that LINAK Actuator System composed of:

Control Box(s)	CBD6S	
And		
Linear Actuator(s)	31xxxH-xxxxx50S, DB4, DB5, DB6, DB7, DB9, DB12, DB14, DB16, LA23	and / or
Lifting Column(s)	DL1A, DL2, DL4, DL5, DL6, DL7, DL8, DL9, DL10, DL11, DL12, DL14, DL15, DL16, DL17, BASE1	
And		
Desk Panel(s)	DP1C, DP1K, DP1L, DP1V, DP1U, DPA, DPB, DPF, DPH, DPT, WDPL1	and / or
Handset(s)	RFT000, RFRL00x, HB1xRF3000, HB2xRFx000	

complies with EMC Directive: 2004/108/EC according to following standards:
EN 61000-6-1:2007, EN 61000-6-3:2007, EN 55014-1:2007+A1+A2, EN 55022:2011 Class B,

complies with Low Voltage Directive 2006/95/EC according to the standard:
EN 60335-1:2012

complies with Machinery Directive 2006/42/EC according to the standard:
EN 13849-1:2008 SRP/CS Cat. B, PL = b and SRESW PL = b

complies with RoHS2 Directive 2011/65/EU according to the standard:
EN 55581:2012

and		
RF Controls:	RF-transmitter: HB1xRF3000	and/or
	RF-transmitter: HB2xRFx000	and/or
	RF-receiver: RFT000, RFRL	

complies with the Radio equipment and Telecommunications terminal equipment Directive 1999/5/EC:
EN 300220-2:2007, EN 61000-6-1:2007, EN 61000-6-3:2007,
EN 60335-1:2012, EN 62311:2008

Nordborg, 2014-04-09

LINAK A/S
John Kling, B.Sc.E.E.
Certification and Regulatory Affairs
Authorized to compile the relevant technical documentation

Original Declaration

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